



CIVIL GEOTECHNICAL SERVICES
ABN 26 474 013 724
PO Box 678 Croydon Vic 3136
Telephone: 9723 0744 Facsimile: 9723 0799

7th January 2020

Our Reference: 19542:NB636

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

**RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
TRIJENA – STAGE 6 (MICKLEHAM)**

Please find attached our Report No 19542/R001 which relates to the field density testing that was conducted within the filled allotments at the above subdivision. The level 1 inspections and associated field density testing was performed in October 2019.

The inspections and testing of the earthworks was undertaken in general accordance with the Level 1 requirements of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments.

The site inspection and testing was performed by experienced geotechnicians from this office. Any areas that were deemed unsatisfactory were reworked and retested under their supervision. The testing was performed to the relevant Australian Standards and the accompanying test reports carry NATA endorsement. The attached compaction results, which were located randomly throughout the fill profile, are considered to be representative of the bulk fill materials that were placed across the reported allotments by Winslow Constructors during the aforementioned period. The approximate locations of the field density tests can be seen on the attached plan (Figure 1).

We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

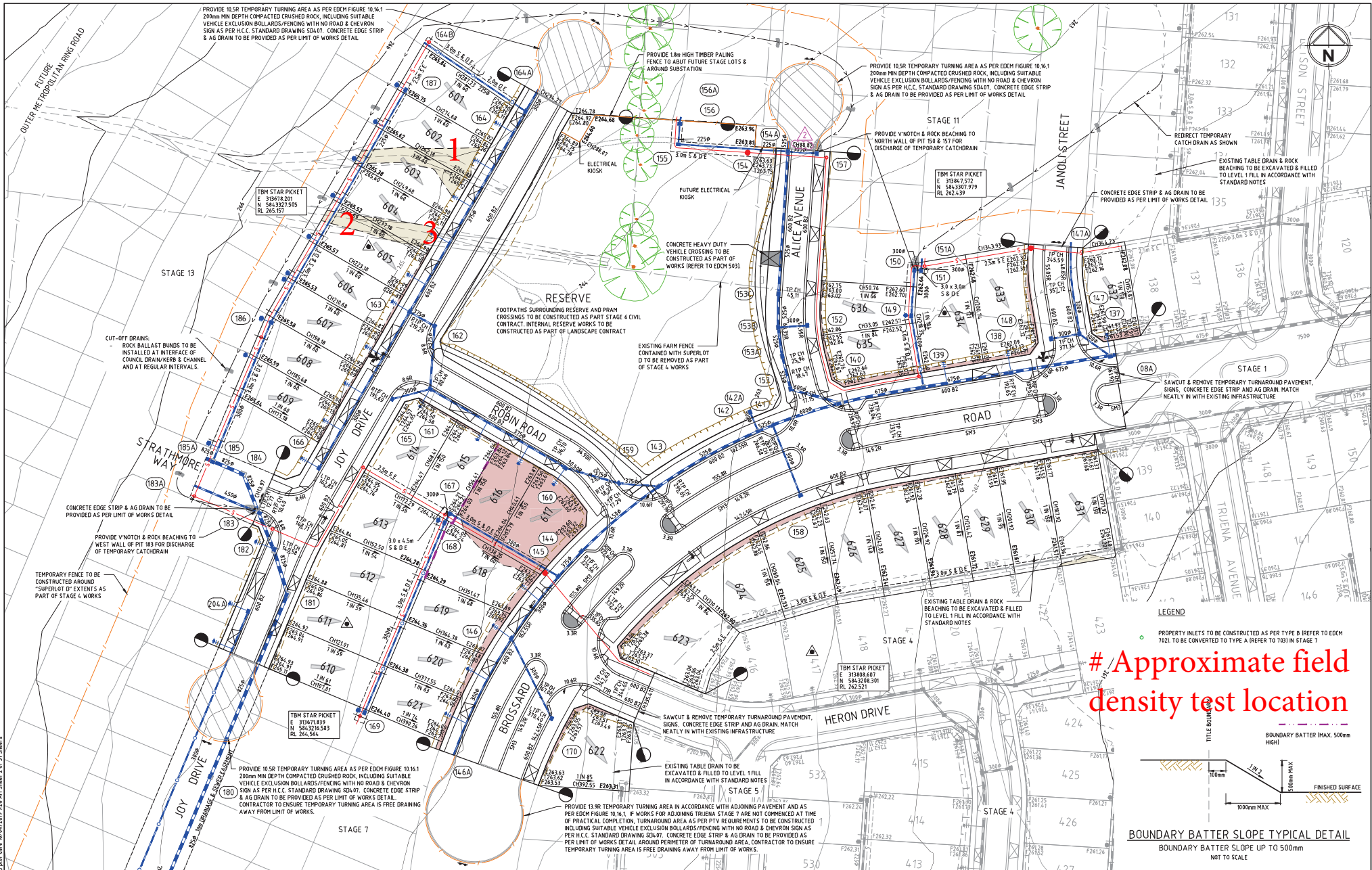
Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

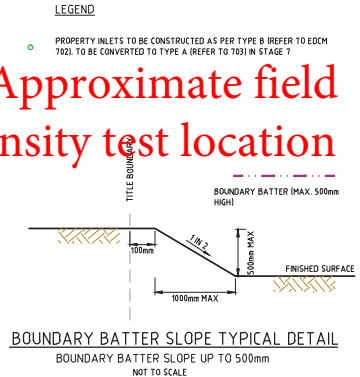
A handwritten signature in blue ink, appearing to be 'Nick Brock', is written over a faint circular stamp.

Nick Brock

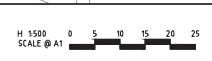
FIGURE 1



Approximate field density test location



2	REVISED BROSSARD RD, ALICE AVE., JOY DRIVE BATTERS & ALICE AVE CH90.02	M.T.	16-04-19
1	REVISED BATTER SLOPE DETAIL & TREE REMOVAL	M.T.	19-03-19
0	ISSUED FOR CONSTRUCTION	M.R.	09-01-19
E	AMENDMENT TO EASEMENT AND PROPERTY INLETS	M.R.	12-12-18
D	AMENDMENT TO FOOTPATH SURROUNDING RESERVE	M.R.	20-11-18
C	ISSUED FOR TENDER	M.R.	05-10-18
B	REVISED LEVELS, NOTES, CATCH DRAIN & RESERVE FOOTPATH LAYOUT	M.R.	18-09-18
A	ISSUED TO COUNCIL	M.R.	24-07-18
Rev	Amendments	Approved	Date



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Designed
M.SHIRLEY
Authorised
M.READMAN

Checked
J.KOEHLER
Date
14/09/18

TRIJENA
STAGE 6
ROAD & DRAINAGE
DETAIL PLAN
HUME CITY COUNCIL
PGG (MICKLEHAM) PTY LTD

Dwg No
CONSTRUCTION 304010CR200

Rev
2



COMPACTION ASSESSMENT

Job No 19542
 Report No 19542/R001
 Date Issued 01/11/2019

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AC
Project	TRIJENA - STAGE 6	Date tested	11/10/19
Location	MICKLEHAM	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 09:33
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	1	2	3	-	-	-
Location	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1			
Approximate depth below FSL						
Measurement depth <i>mm</i>	175	175	175	-	-	-
Field wet density <i>t/m³</i>	1.99	1.94	1.91	-	-	-
Field moisture content <i>%</i>	20.5	21.9	23.6	-	-	-

Test procedure AS 1289.5.7.1

Test No	1	2	3	-	-	-
Compactive effort	Standard					
Oversize rock retained on sieve <i>mm</i>	19.0	19.0	19.0	-	-	-
Percent of oversize material <i>wet</i>	0	0	0	-	-	-
Peak Converted Wet Density <i>t/m³</i>	2.00	1.99	1.99	-	-	-
Adjusted Peak Converted Wet Density <i>t/m³</i>	-	-	-	-	-	-
Optimum Moisture Content <i>%</i>	19.0	19.5	21.0	-	-	-

Moisture Variation From Optimum Moisture Content	1.5% wet	2.5% wet	2.5% wet	-	-	-
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Density Ratio (R_{HD})	%	99.5	97.5	96.5	-	-	-
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Material description

No 1 - 3 Clay Fill

AVRLOT HILF V1.10 MAR 13



The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. Accredited for compliance with ISO/IEC 17025 - Testing

Accreditation No 9909

Approved Signatory : Justin Fry